*Forest Ecology and Management*, 35 (1990)
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands


# Contents of *Forest Ecology and Management*, Volume 35

## VOL. 35 NOS. 1,2 — 1 JULY 1990

**Special Issue: Conservation of diversity in forest ecosystems**

Introduction: Conservation of diversity in forest ecosystems
F.T. Ledig, C.I. Millar and L.A. Riggs (Berkeley, CA, U.S.A.) ..... 1
Habitats in crisis: Why we should care about the loss of species
P.R. Ehrlich (Stanford, CA, U.S.A.) ..... 5
Effects of global warming on forests
R.L. Peters (Washington, DC, U.S.A.) ..... 13
Storage of seeds: potential and limitations for germplasm conservation
F.T. Bonner (Starkville, MS, U.S.A.) ..... 35
Conserving genetic resources on-site in forest ecosystems
L.A. Riggs (Berkeley, CA, U.S.A.) ..... 45
Reducing pressure on natural forests through high-yield forestry
W.T. Gladstone (Hot Springs, AR, U.S.A.) and F.T. Ledig (Berkeley, CA, U.S.A.) ..... 69
Conserving biological diversity: A perspective on scope and approaches
H. Salswasser (Washington, DC, U.S.A.) ..... 79
Endangered forest resources in the U.S.: Integrated strategies for conservation of rare species and genetic diversity
D.A. Falk (Jamaica Plain, M.A, U.S.A.) ..... 91
Genetic conservation of radiata pine and coast redwood
W.J. Libby (Berkeley, CA, U.S.A.) ..... 109
Gene pool reserves of Douglas fir
B.C. Wilson (Olympia, WA, U.S.A.) ..... 121
Managing genetic diversity in a tree improvement program
J.H. Kitzmiller (Chico, CA, U.S.A.) ..... 131
CAMCORE: Industry and Government's effort to conserve threatened forest species in Guatemala, Honduras and Mexico
W.S. Dvorak (Raleigh, NC, U.S.A.) ..... 151
Tropical forest genetics at the Oxford Forestry Institute: Exploration, evaluation, utilization and conservation of genetic resources
R.D. Barnes and J. Burley (Oxford, Great Britain) ..... 159
The role of the United Nations agencies and other international organizations in the conservation of plant genetic resources
C. Palmberg and J.T. Esquinas-Alcazar (Rome, Italy) ..... 171

## VOL. 35 NOS. 3,4 — 15 JULY 1990

Ground-sampling methods used to inventory tropical mixed moist forests
G.B. Wood (Canberra, A.C.T., Australia) ..... 199
Nutrient removals in harvesting of *Leucaena* hedgerows at Mafiga, Morogoro, Tanzania
L.L.L. Lulandala and J.B. Hall (Morogoro, Tanzania) ..... 207
Effects of fertilizer application on *Calamus manan* at Taiping, Perak West Malaysia
M. Aminuddin (Kuala Lumpur, Malaysia) and J.B. Hall (Gwynedd, Great Britain) ..... 217

Germination characteristics in tropical provenances of *Allocasuarina littoralis* and *A. torulosa*
G.M. Crowley and B.R. Jackes (Blackwood, W.A., Australia) ..... 227
Conservation and management possibilities for *Agathis macrophylla* in Vanuatu
P.E.Neil (London, Great Britain) ..... 239
Structural characteristics of fuel particles of five Mediterranean shrubs
C. Papió (Barcelona, Spain) and L. Trabaud (Montpellier, France) ..... 249
Seasonal course of height and needle growth in *Pinus nigra* grown in summer-dry Central Anatolia
K. Isik (Ankara, Turkey) ..... 261
Hexazinone influences on *Pinus taeda* seedlings
C.E. Pehl (Houston, TX, U.S.A.) and H.E. Shelnutt (Athens, GA, U.S.A.) ..... 271
Social-structure dynamics in uneven-aged Scots pine (*Pinus sylvestris*) regeneration under canopy at the Kaliszki Reserve, Kampinoski National Park (Poland)
S. Tarasiuk and M. Zwieniecki (Warsaw, Poland) ..... 277
Gene flow, spatial patterns and seed-collection zones
D.R. Govindaraju (Edmonton, Alta., Canada) ..... 291
Heuristic simulation: An alternative to linear programming in developing forest management schedules
N.E. Elwood (Corvallis, OR, U.S.A.) and D.W. Rose (St. Paul, MN, U.S.A.) ..... 303

**Short Communication**
Growth rates of teak (*Tectona grandis*) in the Caribbean/Central-American region
R.M. Keogh (Bray, Ireland) ..... 311

**Book Reviews**
European research ..... 315
Airborne pollution ..... 316
Sexual reproduction ..... 317
Australia's forests ..... 317

**Author Index** ..... 319

**Subject Index** ..... 321

**Contents of *Forest Ecology and Management*, Volume 35** ..... 325